

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

**John J. Davignon and Weisheng Lei**

Confirmation No.

Application No.

Filed:

For: **METHODS OF DRILLING  
THROUGH-HOLES  
IN HOMOGENOUS AND NON-  
HOMOGENEOUS SUBSTRATES**

Group Art Unit:

Examiner:

Date: April 14, 2004

INFORMATION DISCLOSURE STATEMENT

TO THE COMMISSIONER FOR PATENTS:

1. Pursuant to the duty of disclosure, documents listed on the accompanying Form PTO-1449 (or equivalent) are presented for the Examiner's consideration.  
  
☐ Copies of listed documents are enclosed. (37 CFR § 1.98(a))  
  
☒ Copies of listed U.S. patent documents are omitted because this application was filed after June 30, 2003 and is, thus, subject to image file wrapper processing. Copies of listed foreign patent documents and non-patent literature are enclosed.  
  
☐ Copies of the documents listed on sheet(s) \_\_\_\_\_ of Form PTO-1449 (or equivalent) are omitted because (1) they are already of record in U.S. Patent Application No. \_\_\_\_\_, filed \_\_\_\_\_, on which this application relies for an earlier filing date under 35 U.S.C. § 120; and (2) any information disclosure statement filed in the prosecution of Application No. \_\_\_\_\_, complies with 37 CFR §§ 1.98(a) through (c). (37 C.F.R. § 1.98(d))
2. ☐ The Examiner's attention is directed to the enclosed copy of copending U.S. Patent Application No. \_\_\_\_\_, filed \_\_\_\_\_, for \_\_\_\_\_, which is cited in this application.
3. This information disclosure statement is being submitted (check box a., b., or c.):
  - a. ☒ Within three months of the filing date of a national application or entry of the national stage in an international application; or before the mailing of a first Office action on the merits; or before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. (No statement under 37 CFR 1.97(e) is required.); or

- b. ☐ After the period set forth in paragraph 3a, but before the mailing date of either a final action, a notice of allowance, or an action that otherwise closes prosecution in the application. (Check box i. or ii.)
- i. ☐ A \$180.00 information disclosure statement submission fee set forth in 37 CFR 1.17(p) is enclosed, or
- ii. ☐ A statement specified by 37 CFR 1.97(e) is set forth below; or
- c. ☐ After the mailing date of a final action or notice of allowance and on or before payment of the issue fee. A statement specified by 37 CFR 1.97(e) is set forth below. Enclosed is a \$180.00 information disclosure statement processing fee set forth in 37 CFR 1.17(p).
4. If a statement specified by 37 CFR 1.97(e) is required, the attorney or agent signing below hereby states that:
- ☐ each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or
- ☐ no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.
5. ☐ A concise explanation of the relevance of each document not in the English language and/or selected documents in the English language is set forth below.

Respectfully submitted,

**John J. Davignon and Weisheng Lei**

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FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
50001/100:1 US

APPLICATION NO.

INFORMATION DISCLOSURE CITATION  
(Uses several sheets if necessary)APPLICANT  
Weisheng Lei and John J. Davignon

FILING DATE

GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5	6	1	0	7	0	7	3/11/1997	Duncan et al.	356	121	
	AB	5	8	4	1	0	9	9	11/24/1998	Owen et al.	219	121.69	
	AC	6	0	2	5	2	5	6	2/15/2000	Swenson et al.	438	601	
	AD	6	6	7	6	8	7	8	1/13/04	O'Brien et al.	264	400	
	AE	6	7	0	6	9	9	8	3/16/04	Cutler	219	121.72	
	AF	Pub. No. 2002/0033558							3/21/02	Fahey et al.	264	400	
	AG	Pub. No. 2002/0125227							9/12/02	Sun et al.	219	121.61	
	AH	Pub. No. 2002/0185474							12/12/02	Dunsky et al.	219	121.7	
	AI												
	AJ												
	AK												

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	AL	4	0	3	4	7	4	5	7/1991	Germany	B23K26	02	X	
	AM													
	AN													
	AO													
	AP													

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	What's PLD?, available at <a href="http://ap.polyu.edu.hk/pld/PLD.html">http://ap.polyu.edu.hk/pld/PLD.html</a> , dated 5/5/2003, 4 pgs.											
	AS	Pulsed Laser Deposition and Plasma Investigations, Dr. Geoff Martin, On the Pulse, Dec/00 - Feb. 00, Vol. 1, issue 4, 4 pgs., available at <a href="http://www.andor-tech.com/pulse/otpdec99.pdf">http://www.andor-tech.com/pulse/otpdec99.pdf</a> .											
	AT												

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.